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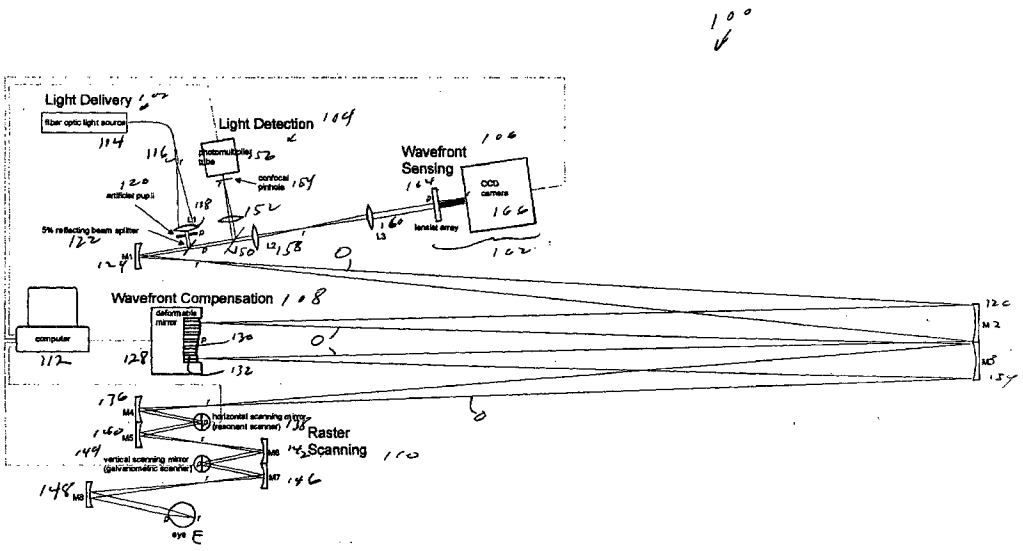
(54) Title: ADAPTIVE OPTICS IN A SCANNING LASE OPHTALMOSCOPE



(57) Abstract: A scanning laser ophthalmoscope incorporates adaptive optics to compensate for wavefront aberrations in the eye. Light from a light source (114) is scanned onto the retina. Light reflected from the retina is detected for imaging and is also used for wavefront sensing. The sensed wavefront aberrations are used to control an adaptive optic device, such as a deformable mirror (128), disposed in the path of the light from the source in order to compensate for the aberrations.

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